10/546000

JC20 Rec'd PCT/PTO 18 AUG 2003/

SEQUENCE LISTING

	Hamada Ito, ' Takaha Morika	Yosh: ashi	inor , Ka	i zuhi:											
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	•														
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cct ct Pro Le															144
tgg cg Trp Ar 5															192
atg aa Met As 65															240
gaa tg Glu Tr															288

											gga Gly					336
											ttc Phe					384
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											tac Tyr					480
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											acc Thr					624
											tgc Cys 220	Asn				672
											gat Asp					720
											gag Glu					768
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											ccc Pro					864
											gaa Glu 300					912
											agc Ser					960
gag	atg	tgt	gat	cgc	ttc	caa	gga	tgt	ctc	tgc	tct	cca	gga	tgg	cag	1008

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									ata Ile 345								1056
									gta Val								1104
									cta Leu								1152
									ctc Leu								1200
									ttc Phe							ccc Pro	1248
									agt Ser 425								1296
•		_	_	Pro					gtt Val		_			_		_	1344
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		_							gat Asp						_	_	1440
						_			tat Tyr								1488
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									cgt Arg								1584
									aca Thr								1632
			_					_	cct Pro		-	_					1680

545	•			550		,			555		•		560	
										gat Asp				1728
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								,		aac Asn				1824
	_	_				_	-			aag Lys 620	-	_	 _	1872
										gac Asp				1920
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										aag Lys 700				2112
			Gln							aac Asn				2160
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	-	-	-		gac Asp					_					2496
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			-	_	gtg Val	_		-	_		_		_		2784
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					ggc Gly	-	-		_	_					2880
					gcc Ala										2928
					ttt Phe										2976
		Thr			agg Arg		Pro				_	Ala			3024

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ggt Gly 1025	Val	tta Leu	cta Leu	tgg Trp	gag Glu 1030	att Ile)	gtt Val	agc Ser	tta Leu	gga Gly 1035	Gly	aca Thr	ccc Pro	tac Tyr	tgc Cys 1040	3120
					Glu	ctc Leu				Leu					Arg	3168
				Leu		tgt Cys			Glu					Met		3216
			Arg			cct Pro		Glu					Ala		ata Ile	3,264
		Ser				atg Met 1095	Leu					Thr				3312
acc Thr 1105	Thr	ctt Leu	tat Tyr	gag Gl <u>u</u>	aag Lys 111(ttt Phe	act Thr	tat Tyr	gca Ala	gga Gly 1115	Ile	gac Asp	tgt Cys	tct Ser	gct Ala 1120	3360
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Pro	Leu	Val		Asp	Ala	Glu-	Thr		Leu	Thr	Cys	Ile 45		Ser	Gly	
Trp	Arg 50		His	Glu	Pro	Ile 55		Ile	Gly	Arg	Asp		Glu	Ala	Leu	
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Leu	Thr 130	Met	Thr	Val	Asp	Lys 135	Gly	Asp	Asn	Val	Asn 140	Ile	Ser	Phe	Lys	
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Tyr Ile Gly Gly Asn Leu Phe Thr Ser Ala Phe Thr Arg Leu Ile Val
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Arg Arg Cys Glu Ala Gln Lys Trp Gly Pro Glu Cys Asn His Leu Cys
                         215
                                             220
Thr Ala Cys Met Asn Asn Gly Val Cys His Glu Asp Thr Gly Glu Cys
Ile Cys Pro Pro Gly Phe Met Gly Arg Thr Cys Glu Lys Ala Cys Glu
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Leu His Thr Phe Gly Arg Thr Cys Lys Glu Arg Cys Ser Gly Gln Glu
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Gly Cys Lys Ser Tyr Val Phe Cys Leu Pro Asp Pro Tyr Gly Cys Ser
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Cys Ala Thr Gly Trp Lys Gly Leu Gln Cys Asn Glu Ala Cys His Pro
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                                                 365
Ile Cys Lys Ala Ser Gly Trp Pro Leu Pro Thr Asn Glu Glu Met Thr
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Leu Val Lys Pro Asp Gly Thr Val Leu His Pro Lys Asp Phe Asn His
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Pro Asp Ser Gly Val Trp Val Cys Ser Val Asn Thr Val Ala Gly Met
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Asn Ala Pro Asn Val Ile Asp Thr Gly His Asn Phe Ala Val Ile Asn
Ile Ser Ser Glu Pro Tyr Phe Gly Asp Gly Pro Ile Lys Ser Lys Lys
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Tyr Glu Leu Cys Val Gln Leu Val Arg Arg Gly Glu Gly Glu Gly
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His Pro Gly Pro Val Arg Arg Phe Thr Thr Ala Ser Ile Gly Leu Pro
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Pro Pro Arg Gly Leu Asn Leu Leu Pro Lys Ser Gln Thr Thr Leu Asn
Leu Thr Trp Gln Pro Ile Phe Pro Ser Ser Glu Asp Asp Phe Tyr Val
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Val Pro Gly Asn Leu Thr Ser Val Leu Leu Asn Asn Leu His Pro Arg
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Gln Pro Glu Asn Ile Lys Ile Ser Asn Ile Thr His Ser Ser Ala Val
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Ile Ser Trp Thr Ile Leu Asp Gly Tyr Ser Ile Ser Ser Ile Thr Ile
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Arg Tyr Lys Val Gln Gly Lys Asn Glu Asp Gln His Val Asp Val Lys
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Ile Lys Asn Ala Thr Ile Ile Gln Tyr Gln Leu Lys Gly Leu Glu Pro
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Glu Thr Ala Tyr Gln Val Asp Ile Phe Ala Glu Asn Asn Ile Gly Ser
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Ser Asn Pro Ala Phe Ser His Glu Leu Val Thr Leu Pro Glu Ser Gln
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Phe Gln Asn Val Arg Glu Glu Pro Ala Val Gln Phe Asn Ser Gly Thr
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Pro Val Leu Asp Trp Asn Asp Ile Lys Phe Gln Asp Val Ile Gly Glu
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Arg Met Asp Ala Ala Ile Lys Arg Met Lys Glu Tyr Ala Ser Lys Asp
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Asp His Arg Asp Phe Ala Gly Glu Leu Glu Val Leu Cys Lys Leu Gly
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Tyr Leu Tyr Leu Ala Ile Glu Tyr Ala Pro His Gly Asn Leu Leu Asp
Phe Leu Arg Lys Ser Arg Val Leu Glu Thr Asp Pro Ala Phe Ala Ile
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Val Lys Lys Thr Met Gly Arg Leu Pro Val Arg Trp Met Ala Ile Glu
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                                       1035
Gly Met Thr Cys Ala Glu Leu Tyr Glu Lys Leu Pro Gln Gly Tyr Arg
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                                    1050
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135

130

_	aca Thr	_	_				_						-			480
	cag Gln															528
	ctt Leu		_	,		_		_	_			_		Asn	_	576
	tta Leu	_					-	_	-					-		,624
	gac Asp 210														act . Thr	672
	caa Gln			Ile			_		Glu	_						720
	acc Thr															768
	gtc Val				_			-			-		_			816
Lys	gga Gly	Gly 275	Lys	Arg	Glu	.Glu	Glu 280	Lys	Pro	Phe	Arg	Asp 285	Cys	Ala	Asp	864
	tat Tyr 290															912
	aat Asn															960
	gga Gly				_				_	_	_		_		_	1008
	caa Gln															1056
	gaa Glu															1104

	g cag g Gln 370															1152
gco Ala 385	tat Tyr	tca Ser	cag Gln	tat Tyr	gac Asp 390	aga Arg	ttc Phe	cac His	ata Ile	gga Gly 395	aat Asn	gaa Glu	aag Lys	caa Gln	aac Asn 400	1200
	agg Arg															1248
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_	ttt Phe	,							•	•		•				1494
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Asn 65	Ala	Leu	Gln	Arg	Asp 70	Ala	Pro	His	Val		Pro	Asp	Phe	Ser		
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Ile Gln Leu Leu Glu Asn Ser Leu Ser Thr Tyr Lys Leu Glu Lys Gln
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Leu Leu Gln Gln Thr Asn Glu Ile Leu Lys Ile His Glu Lys Asn Ser
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Leu Leu Glu His Lys Ile Leu Glu Met Glu Gly Lys His Lys Glu Glu
Leu Asp Thr Leu Lys Glu Glu Lys Glu Asn Leu Gln Gly Leu Val Thr
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Arg Gln Thr Tyr Ile Ile Gln Glu Leu Glu Lys Gln Leu Asn Arg Ala
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Thr Thr Asn Asn Ser Val Leu Gln Lys Gln Gln Leu Glu Leu Met Asp
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Thr Val His Asn Leu Val Asn Leu Cys Thr Lys Glu Gly Val Leu Leu
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                                265
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Val Tyr Gln Ala Gly Phe Asn Lys Ser Gly Ile Tyr Thr Ile Tyr Ile
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